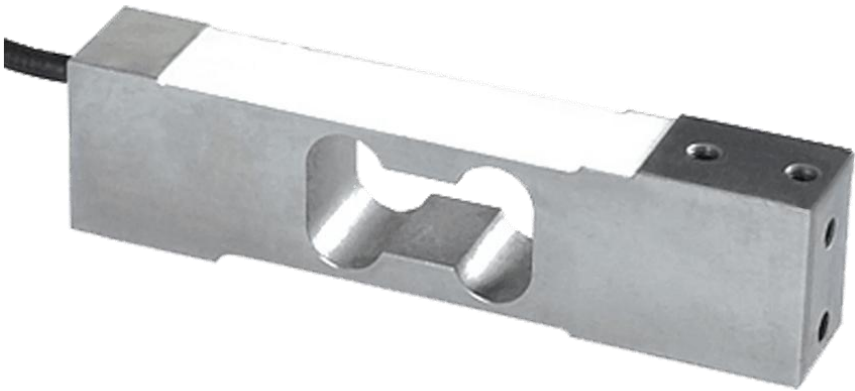


SINGLE-POINT LOAD CELL FOR PLATFORMS

TENSION &  
COMPRESSION



- STAINLESS STEEL AISI 420 | 1.4034
- COMBINED ERROR  $\leq \pm 0.03\%$
- IP67 PROTECTION RATING



NOMINAL LOAD (FS)

| kg  | N     | Net weight (kg) | PLATFORM (mm)<br>A x B | Rated Output (mV/V) |
|-----|-------|-----------------|------------------------|---------------------|
| 10  | 100   | 1               | 400 x 400              | 2 ±10%              |
| 30  | 300   | 1               | 400 x 400              | 2 ±10%              |
| 50  | 500   | 1               | 400 x 400              | 2 ±10%              |
| 100 | 1 000 | 1               | 400 x 400              | 2 ±10%              |
| 200 | 2 000 | 1               | 400 x 400              | 2 ±10%              |



## TECHNICAL DATA

## PRECISION

|                                        |                                    |
|----------------------------------------|------------------------------------|
| Rated Output ( $C_n$ )                 | 2 mV/V $\pm 10$ % at FS            |
| Zero Balance                           | $\pm 1$ %                          |
| Combined error                         | $\leq \pm 0.03$ %                  |
| Non-linearity                          | $\leq \pm 0.02$ %FS                |
| Hysteresis                             | $\leq \pm 0.02$ %FS                |
| Repeatability                          | -                                  |
| Creep                                  | $\leq \pm 0.03$ %FS (at 30 min FS) |
| Temperature coefficient of zero        | 0.0025 %FS/°C                      |
| Temperature coefficient of sensitivity | 0.0025 %FS/°C                      |
| Compensated temperature range          | -10...+40 °C                       |
| Operating temperature range            | -20...+60 °C                       |
| Reference Temperature                  | 23 °C                              |

## MECHANICAL PROPERTIES

|                  |                          |
|------------------|--------------------------|
| Material         | STAINLESS STEEL AISI 420 |
| Deflection at FN | 0.5 mm                   |

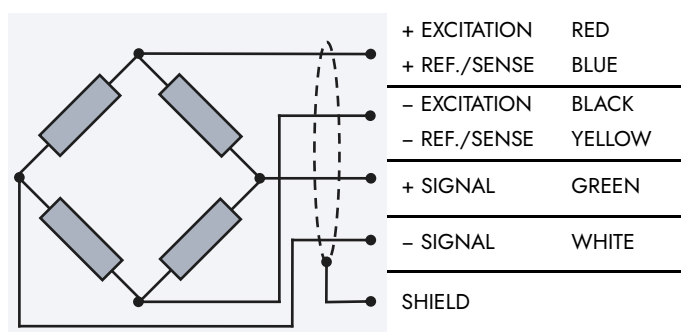
## MECHANICAL LIMITS

|                               |           |                                                                                                                                                                           |
|-------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Service load                  | 120 %FS   | Load without any permanent deformation or change in calibration.                                                                                                          |
| Safe overload                 | 150 %FS   | The highest static load that may be applied once or briefly without mechanical damage.                                                                                    |
| Breaking load                 | > 300 %FS | Load at which permanent deformation or mechanical failure (fracture) occurs.                                                                                              |
| Max. transverse load (side)   | 50 %FS    | Maximum lateral or shear load that can be applied (e.g. due to misalignment or friction).                                                                                 |
| Max. permissible dynamic load | 70 %FS    | For cyclic or oscillating loads, the amplitude should not exceed this load to prevent fatigue failure. The dynamic load must be applied to the transducer central thread. |

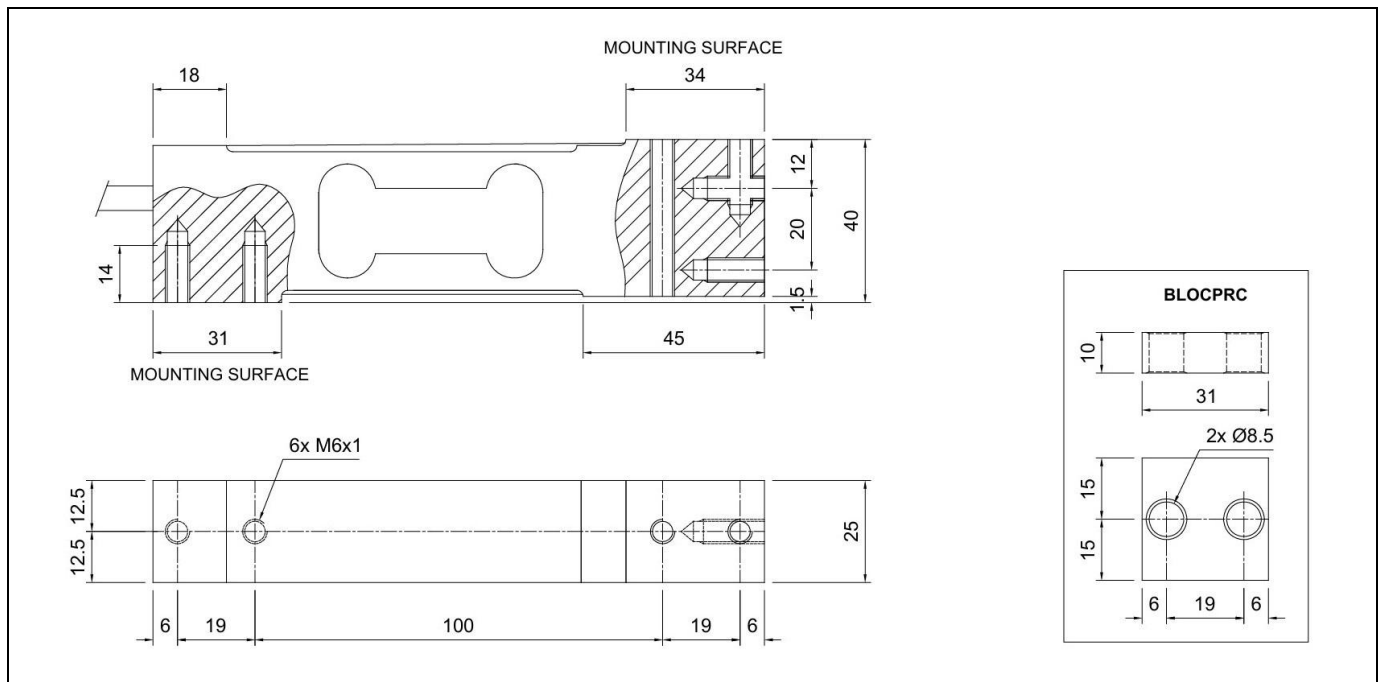
## ELECTRICAL PROPERTIES

|                                |                                   |
|--------------------------------|-----------------------------------|
| Bridge configuration           | Full Wheatstone bridge, 6-wire    |
| Input resistance               | 385 $\Omega$ $\pm 30$             |
| Output resistance              | 350 $\Omega$ $\pm 3$              |
| Insulation resistance          | $\geq 2\,000$ M $\Omega$ at 100 V |
| Recommended excitation voltage | $\leq 18$ V                       |
| Cable diameter                 | 5 mm                              |
| Cable length                   | 6 m                               |
| Cores                          | 6 x 0.20 mm <sup>2</sup>          |

## ELECTRICAL CONNECTION



## DIMENSIONS (mm)



For the load cell fixing screws, provide the tightening torque indicated in the table

| Screw             | M6     |       |
|-------------------|--------|-------|
| Screw class       | 6.8    | 8.8   |
| Tightening torque | 7.5 Nm | 10 Nm |

## LOADING

| Comply with the loading area |        |                 |        |
|------------------------------|--------|-----------------|--------|
| <p><b>✓</b></p>              |        | <p><b>✗</b></p> |        |
| A (mm)                       | B (mm) | A (mm)          | B (mm) |
| ≤ 400                        | ≤ 400  | > 400           | > 400  |



COMPLIANCE AND CERTIFICATION

|                                |                                                                                    |                                                                                                   |
|--------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Protection Rating              | IP67 according to IEC 60529                                                        |                                                                                                   |
| Compliance                     | CE, RoHS, REACH                                                                    |                                                                                                   |
| Calibration                    | Factory calibrated, ISO 17025 calibration available on request                     |                                                                                                   |
| HS-CODE                        | 9031.80.80                                                                         |                                                                                                   |
| Certifications                 |   | Complies with the Eurasian Customs Union regulations                                              |
|                                |   | Equivalent of the CE marking for the United Kingdom                                               |
| Certifications<br>(on request) |   | Calibration report                                                                                |
|                                |   | ATEX (zone 2-22)                                                                                  |
|                                |   | Complies with the Eurasian Customs Union regulations for use in potentially explosive atmospheres |
|                                |  | Complies with Chinese market regulations for use in potentially explosive atmospheres             |



## MOUNTING KITS AND ACCESSORIES

### LMLAA

- Pair of stainless steel tension brackets
- Adjustable upper plate in galvanized steel (PPVZ).
- Lower plate and block in galvanized steel.
- Constraint against lateral forces and anti-tilt by galvanized steel self-centering joint foot.
- Compensation for any misalignments of the support plates of the structure.
- Adjustable height.
- Locking screw to avoid damage during transport and installation.
- Can be used for systems with at least 3 supports.



MAX. STATIC LOAD:  
200 kg

### BLOCPRC

- Stainless steel drawn block.

